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	Application No.	Applicant(s)	
Notice of Allowshility	10/817,400	OBERT ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Shih-Chao Chen	2821	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT Of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communing GHTS. This application is su	his application. If not included ication will be mailed in due co	ourse. THIS
1. X This communication is responsive to the application filed of	n April 2, 2004.		
2. 🔀 The allowed claim(s) is/are <u>1-20</u> .			
3. \boxtimes The drawings filed on <u>02 April 2004</u> are accepted by the Ex	kaminer.		
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitined in the submitined in t	been received. been received in Application cuments have been received of this communication to file at ENT of this application. itted. Note the attached EXAMES reason(s) why the oath or control to the submitted. on's Patent Drawing Review as Amendment / Comment or in the header according to 37 CFR sit of BIOLOGICAL MATEI	No in this national stage application a reply complying with the requ MINER'S AMENDMENT or NO declaration is deficient. (PTO-948) attached at the Office action of declaratings in the front (not the best of 1.121(d)). RIAL must be submitted. No	irements TICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4/2/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sur Paper No./N 8), 7. ☐ Examiner's A	ormal Patent Application (PTO-mmary (PTO-413), lail Datemendment/Comment statement of Reasons for Allow Shin-Chao Chen PRIMARY EXAMINER	

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-15 is the inclusion of the limitations of a first phase-comparison device having as an input the first-sensor output signal and the second-sensor output signal, and as an output a first phase comparison of the first-sensor output signal and the second-sensor output signal; and a first geometrical calculator having as an input the first phase comparison and as an output a geometrical relationship of the first-pair axis to an other feature. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 16-17 is the inclusion of the limitations of a first phase-comparison device having as an input the first-sensor output signal and the second-sensor output signal, and as an output a first phase comparison of the first-sensor output signal and the second-sensor output signal; and a first geometrical calculator having as an input the first phase comparison and as an output an angular relationship of the first-pair axis to the transmitted microwave feed beam. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

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The primary reason for the allowance of claims 18-20 is the inclusion of the limitations of a phase-comparison device having as an input the sensor output signals and as an output a phase comparison of the output signals; and a geometrical calculator having as an input the phase comparison and as an output a geometrical relationship of the microwave sensors. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Nilsson (U.S. Patent No. 6,611,236) teaches an antenna arrangement includes an antenna reflector, a transceiver element and a signal detection unit having a signal converter and a computing unit for generating in response to incoming signals control signals for controlling the alignment of the antenna reflector with a target object.

However, Nilsson does not disclose or suggest a first phase-comparison device having as an input the first-sensor output signal and the second-sensor output signal, and as an output a first phase comparison of the first-sensor output signal and the second-sensor output signal; and a first geometrical calculator having as an input the first phase comparison and as an output a geometrical relationship of the first-pair axis to an other feature.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Chao Chen Primary Examiner Art Unit 2821 *SHIH-CHAO CHEN* SHIH-CHAO CHEN PRIMARY EXAMINER

SXC August 29, 2005